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## **CLAIM LISTING**

This listing of claims will replace all prior versions, and listings of claims in the application:

## IN THE CLAIMS

1. (Currently amended) A bitstream for configuring a PLD with an encrypted a design comprising:

a plurality of unencrypted words for controlling loading of configuration data; and a plurality of encrypted data words specifying the encrypted design;

wherein a subset of the plurality of unencrypted words for controlling loading of configuration data indicates whether the plurality of data words specifying the design is a plurality of encrypted words specifying an encrypted design.

- 2. (Original) The bitstream of Claim 1 wherein one of the unencrypted words comprises a key address for locating a decryption key for decrypting the encrypted words.
- 3. (Original) The bitstream of Claim 1 wherein one of the unencrypted words comprises an address register for loading the first word of the encrypted design.
- 4. (Original) The bitstream of Claim 1 further comprising a plurality of encrypted words for controlling loading of configuration data, wherein one of the encrypted words for controlling loading of configuration data specifies an address for loading a word of the encrypted design.
- 5. (Original) The bitstream of Claim 4 wherein another of the encrypted words for controlling loading of configuration data specifies an address for loading a word of the encrypted design.

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6. (Original) The bitstream of Claim 1 wherein the unencrypted words for controlling loading of configuration data include a cyclic redundancy checksum for comparison to a cyclic redundancy checksum calculated by the PLD.

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- 7. (Original) The bitstream of Claim 6 wherein the cyclic redundancy checksum in the bitstream is calculated on configuration data before the configuration data has been encrypted.
- 8. (Original) The bitstream of Claim 6 wherein the cyclic redundancy checksum in the bitstream is calculated on configuration data after the configuration data has been encrypted.
- (Previously presented) A bitstream for configuring a plurality of PLDs comprising: a first plurality of words for controlling loading of configuration data into a first PLD; and

a second plurality of words corresponding to the first plurality of words and specifying a design for loading into the first PLD

a third plurality of words for controlling loading of configuration data into a second PLD; and

a fourth plurality of words corresponding to the third plurality of words and specifying a design for loading into the second PLD;

wherein at least one of the second and fourth pluralities of words specifying a design is encrypted and the corresponding at least one of the first and third plurality of words is unencrypted.

10. (Previously presented) The bitstream of Claim 9 wherein the second plurality of words specifying a design for loading into the first PLD is unencrypted and the fourth plurality of words specifying a design for loading into the second PLD is encrypted.

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11. (Previously presented) The bitstream of Claim 9 wherein the second plurality of words specifying a design for loading into the first PLD is encrypted and the fourth plurality of words specifying a design for loading into the second PLD is unencrypted.

- 12. (Previously presented) The bitstream of Claim 9 wherein both of the second and fourth pluralities of words specifying a design are encrypted.
- 13. (Previously presented) The bitstream of Claim 12 wherein the second plurality of words specifying a design for loading into the first PLD are encrypted with a first key and the fourth plurality of words specifying a design for loading into the second PLD are encrypted with a second key.
- 14. (Previously presented) The bitstream of Claim 1 wherein each plurality of encrypted words further specifies an address into which the encrypted design is to be loaded.
- 15. (Previously presented) The bitstream of Claim 1 wherein each plurality of unencrypted words for controlling loading of configuration data includes a cipher block chaining initial value.
- 16. (Previously presented) The bitstream of Claim 1 wherein each plurality of encrypted words specifying the encrypted design is loaded into a single group of successive addresses.
- 17. (Previously presented) The bitstream of Claim 1 wherein each plurality of encrypted words specifies the encrypted design is loaded into a plurality of groups of successive addresses.

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18. (Currently Amended) A method of generating a bitstream with encrypted design data comprising the steps of:

providing a cipher block starting number;

forming a cipher block chaining initial value by replacing a portion of the cipher block starting number with comprising a starting address for loading a design into a PLD;

combining the cipher block chaining initial value with a first word of design data to form a first combined word;

encrypting the first combined word to form a first word of encrypted data; combining the first word of encrypted data with a second word of design data to form a second combined word; and

encrypting the second combined word to form a second word of encrypted data.

- 19. (Original) The method of Claim 18 wherein subsequent steps of combining and encrypting are repeated until all design data has been encrypted.
- 20. (Canceled)
- 21. (New) The method of Claim 18 wherein providing the cipher block starting number comprises generating a random number.